

Applic. No. 10/653,793
Amdt. dated April 27, 2006
Reply to Office action of March 3, 2006

Claim Amendments

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A process for producing a metallic honeycomb body, which comprises the following steps:

providing metal foils and forming a void in at least one of the metal foils;

forming voids in adjacent metal foils with mutually different dimensions;

subsequently forming the metal foils for at least partially providing structures on the metal foils;

processing the at least partially structured metal foils by stacking and subsequently winding the metal foils in an S shape or arranging the metal foils to run in an involute form from an inside outward, to form a honeycomb structure with passages defined by the structures on the metal foils for conducting a gas therethrough, and to place the at least one metal foil such that the void defines a receptacle extending into an interior of the honeycomb structure and being configured to receive therein a sensor device;

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providing a tubular casing with an opening and introducing the honeycomb structure into the tubular casing, with the opening at least partly aligned with the receptacle; and

connecting the metal foils and the tubular casing with a suitable joining technique; and

integrating a sensor in rod form into the receptacle without the sensor making contact with the metal foils.

Claim 2 (original): The process according to claim 1, which comprises forming the at least partially structured metal foils to form a honeycomb body for a catalytic converter forming passages for an exhaust gas from an internal combustion engine.

Claim 3 (original): The process according to claim 1, which comprises forming the receptacle to define a blind bore.

Claim 4 (original): The process according to claim 1, wherein the metal foils have a thickness of less than 0.03 mm.

Claim 5 (original): The process according to claim 1, which comprises stamping the voids from the metal foils.

Claim 6 (cancelled).

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Claim 7 (previously presented): The process according to claim 1, wherein the voids are U-shaped recesses.

Claim 8 (cancelled).

Claim 9 (previously presented): The process according to claim 1, which comprises forming the receptacle, at least in sections thereof, to follow a profile of the metal foils.

Claim 10 (original): The process according to claim 9, which comprises inserting a sensor having a shape corresponding to a shape of the receptacle.

Claims 11-15 (cancelled).